

AMENDMENT TO THE CLAIMS:

Please cancel claims 1-24 and 35-38 without prejudice or disclaimer, and amend Claims 26-31 as follows:

Claims 1-24 (canceled)

Claims 25 (original): A dispersed Hartmann sensor, comprising:

a Hartmann lenslet in combination with a dispersive element, whereby a Hartman spot formed by light passing through said Hartmann lenslet is dispersed at an angle to a phase step of said light.

Claim 26 (currently amended): ~~A sensor according to~~ The dispersed Hartmann sensor of claim 25, wherein said angle is zero so that said light passing through said Hartmann lenslet is dispersed parallel to said phase step of said light.

Claim 27 (currently amended): ~~A sensor according to~~ The dispersed Hartmann sensor of claim 25, wherein said dispersive element is a refractive element.

Claim 28 (currently amended): ~~A sensor according to~~ The dispersed Hartmann sensor of claim 25, wherein said dispersive element is a diffractive element.

Claim 29 (currently amended): ~~A sensor according to~~ The dispersed Hartmann sensor of claim 25, wherein said dispersive element is a combination of a diffractive element and a refractive element.

Claim 30 (currently amended): ~~A sensor according to~~ The dispersed Hartmann sensor of claim 29, wherein said dispersive element is a grism.

Claim 31 (currently amended): ~~A sensor according to~~ The dispersed Hartmann sensor of claim 29, wherein said dispersive element is a holographic grating.

Claim 32 (original): A mirror array, comprising:

a first layer having a plurality of mirror segments, each mirror segment consisting of a center portion and a surrounding non-center portion;

a second layer having a plurality of Hartmann subapertures and a plurality of dispersed Hartmann subapertures;

said Hartmann subapertures being arranged over said center portions of said plurality of mirror segments; and

said dispersed Hartmann subapertures being arranged over those edges where said plurality of mirror segments join one another.<sup>a</sup>

Claim 33 (original): A method for measuring the size of a discontinuity in a wavefront of light, comprising the steps of:

forming a single image of said wavefront;

dispersing said image in wavelength using a combination of a Hartman lenslet and a dispersive element; and

analyzing said dispersed image along a dispersion direction of said dispersed image to measure the size of said discontinuity.

Claim 34 (original): A system for measuring the size of a discontinuity in a wavefront of light, comprising:

means for forming a single image of said wavefront;

means for dispersing said image in wavelength using a combination of a Hartman lenslet and a dispersive element; and

means for analyzing said dispersed image along a dispersion direction of said dispersed image to measure the size of said discontinuity.

Claims 35-38 (canceled)